

WHAT IS CLAIMED IS:

1. An impeller for hurling aggregate material toward anvils said impeller comprising:
a table; and
5 a central feed body,
wherein said center feed body is formed by steps and has a plurality of hard material insert rods.
2. The impeller according to claim 1
10 further comprising:
a shoe connected by a support bracket to said table; and
a liner connected to said shoe and said table.
3. The impeller according to claim 1
15 wherein said center feed body has a generally overall conical shape.
4. The impeller according to claim 1
wherein said plurality of insert rods are positioned in
20 a plurality of bores formed in a top landing surface of each said step, said bores each have a bottom,
a top surface of each said insert rod is positioned significantly above an adjacent one of said bottoms up on the next said step whereby said insert
25 rod top surface protects insert rods up on the next step from being washed out.
5. The impeller according to claim 2
wherein a bottom row of said insert rods are fixed to said shoe and a row of insert rods are fixed on said
30 liner adjacent to said shoe, said rows are stitched to protect a corner interface between said shoe and said liner.

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rod top surface protects insert rods up on the next step from being washed out.

12. The center feed body according to claim 11 wherein extended insert rods are fixed to an exposed peripheral side surface of at least one of said 5 step sections.

13. The impeller according to claim 10 wherein said step sections each have a top landing surface that is generally horizontal with bores formed therein, said bores have a central axis that is generally perpendicular to each said horizontal surfaces.

14. The impeller according to claim 11
wherein at least one of said step sections has a top
15 landing surface that is generally horizontal with bores
formed therein, said bores have a central axis that is
generally perpendicular to said at least one of said
top landing surfaces.

15. An impeller for hurling aggregate
20 material toward anvils said impeller comprising:
a table;
a center feed body;
a shoe connected by a support bracket to
said table; and
25 a shoe liner connected to said shoe and
said table,
wherein a bottom row of said insert rods
are fixed to said shoe and a row of insert rods are
fixed on said liner adjacent to said shoe, said rows
30 are stitched to protect a corner crease between said
shoe and said liner.

16. An impeller for hurling aggregate material toward anvils said impeller comprising:

